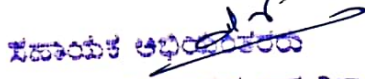


**"IMPROVEMENTS TO BALANCE ROADS AND  
DRAINS AT BHUVANESHWARINAGARA AND  
MARUTHI LAYOUT OF DASARAHALLI  
VILLAGE SURROUNDING AREA IN WARD NO 06  
THANISANDRA)."**

# **Quality Control Reports**

| CIVIL PRO, BANGALORE                                             |                                                                                                                                                       |                  |          |
|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------|
| Address: # 4, 7TH MAIN, MALLESWARAM BANGALORE 560 003, KARNATAKA |                                                                                                                                                       |                  |          |
| Job Code                                                         | 006-21-000017                                                                                                                                         | DATA ENTRY SHEET |          |
| CP Reference ID                                                  | CP-2022-04-30-38                                                                                                                                      | Date:            | 30-04-22 |
| Customer Name                                                    | Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.                                                                          |                  |          |
| Customer Address                                                 | Byatarayanapura Sub Division, BBMP, Bangalore.                                                                                                        |                  |          |
| Name of Work                                                     | Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra. |                  |          |
| Agency                                                           | Dhananjaya M L, No:90/4, 2nd Floor,2nd Main, Seshadripuram, Bangalore - 560020                                                                        |                  |          |
| Work Order Ref                                                   | BBMP/EE/BTP/WO/35/2021-22                                                                                                                             | Date:            | 28-02-22 |
| Work Start Date                                                  | 04-03-22 ✓                                                                                                                                            | Work End Date    |          |
| Remark                                                           |                                                                                                                                                       |                  |          |
| Report Prepared By                                               | Chethana M B                                                                                                                                          |                  |          |

| Samples Details                                         |                |        |          |                  |
|---------------------------------------------------------|----------------|--------|----------|------------------|
| SAMPLE NAME                                             | SAMPLE DETAILS |        |          | CP ID            |
|                                                         | Qty            | Sets   | Date     |                  |
| CEMENT                                                  |                |        | 04-03-22 | CP-2022-04-30-38 |
| .A 40MM, 20MM                                           |                |        | 04-03-22 | CP-2022-04-30-38 |
| .A                                                      |                |        | 04-03-22 | CP-2022-04-30-38 |
| TEEL                                                    |                |        | 04-03-22 | CP-2022-04-30-38 |
| RECAST (100 & 250) mm                                   |                |        | 04-03-22 | CP-2022-04-30-38 |
| rain Concrete M20                                       |                |        |          | CP-2022-04-30-38 |
| rain Bottom Raft - Maruthi Layout Cross Road 2          | 469.03         | 2 Sets | 10-03-22 | CP-2022-04-30-38 |
| rain Bottom Raft - Maruthi Layout sri Nilaya House Road |                | 1 Set  | 12-03-22 | CP-2022-04-30-38 |
| rain Side Wall - Maruthi Layout n A Cross Road          |                | 1 Sets | 14-03-22 | CP-2022-04-30-38 |
| rain Side Wall - Maruthi Layout dmiton Court Road       |                | 1 Set  | 16-03-22 | CP-2022-04-30-38 |
| rain Side Wall - Maruthi Layout ss Road 3               |                | 1 Sets | 18-03-22 | CP-2022-04-30-38 |

  
 ದಿ. 30.04.22 ಬಾ.ಪ್ರಾ.ಯ.ನಗರ ಉಪ ವಿಭಾಗ ಕೆ.ಪಿ.ಎಂ. ಸಂ. 35-2021-22  
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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

### QC ABSTRACT

**SCOPE OF WORK:** Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi  
t of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.

| Item Of Work                      | Name of Test                            | Frequency of Test/Quantity | Executed Quantity | Number of Tests Required | Number of Tests Conducted |
|-----------------------------------|-----------------------------------------|----------------------------|-------------------|--------------------------|---------------------------|
| <b>Materials</b>                  |                                         |                            |                   |                          |                           |
| Cement                            | Fineness by dry sieving                 | One Test                   |                   | 1                        | 1                         |
|                                   | Finess by Air permeability method       | One Test                   |                   | 1                        | 1                         |
|                                   | Density                                 | One Test                   |                   | 1                        | 1                         |
|                                   | Standard Consistency                    | One Test                   |                   | 1                        | 1                         |
|                                   | Initial Setting time                    | One Test                   |                   | 1                        | 1                         |
|                                   | Final Setting time                      | One Test                   |                   | 1                        | 1                         |
|                                   | Soundness (Le Chatelier's Method)       | One Test                   |                   | 1                        | 1                         |
|                                   | Compressive Strength                    | One Test                   |                   | 1                        | 1                         |
| Coarse aggregate(40 mm down size) | SIEVE ANALYSIS                          | One Test                   |                   | 1                        | 1                         |
|                                   | Flakiness Index                         | One Test                   |                   | 1                        | 1                         |
|                                   | Elongation Index                        | One Test                   |                   | 1                        | 1                         |
|                                   | Specific Gravity                        | One Test                   |                   | 1                        | 1                         |
|                                   | Bulk Density(Loose)                     | One Test                   |                   | 1                        | 1                         |
|                                   | Bulk Density(Compacted)                 | One Test                   |                   | 1                        | 1                         |
|                                   | Water Absorption                        | One Test                   |                   | 1                        | 1                         |
|                                   | SIEVE ANALYSIS                          | One Test                   |                   | 1                        | 1                         |
| Coarse aggregate(20 mm down size) | Flakiness Index                         | One Test                   |                   | 1                        | 1                         |
|                                   | Elongation Index                        | One Test                   |                   | 1                        | 1                         |
|                                   | Specific Gravity                        | One Test                   |                   | 1                        | 1                         |
|                                   | Bulk Density(Loose)                     | One Test                   |                   | 1                        | 1                         |
|                                   | Bulk Density(Compacted)                 | One Test                   |                   | 1                        | 1                         |
|                                   | Water Absorption                        | One Test                   |                   | 1                        | 1                         |
|                                   | Aggregate crushing Value                | One Test                   |                   | 1                        | 1                         |
|                                   | Aggregate Impact Value                  | One Test                   |                   | 1                        | 1                         |
| Fine aggregate                    | SIEVE ANALYSIS                          | One Test                   |                   | 1                        | 1                         |
|                                   | Water Absorption                        | One Test                   |                   | 1                        | 1                         |
|                                   | Specific Gravity                        | One Test                   |                   | 1                        | 1                         |
|                                   | Material finer than 75 micron           | One Test                   |                   | 1                        | 1                         |
| Steel                             | Bend test                               | One Test                   |                   | 1                        | 1                         |
|                                   | Tensile Test                            | One Test                   |                   | 1                        | 1                         |
|                                   | Yield Test                              | One Test                   |                   | 1                        | 1                         |
|                                   | ReBend test                             | One Test                   |                   | 1                        | 1                         |
| Precast (100mm)                   | Core Compressive Strength               | One Test                   |                   | 1                        | 1                         |
|                                   | Corrected Cylinder Compressive Strength | One Test                   |                   | 1                        | 1                         |
|                                   | Equivalent Cube Compressive Strength    | One Test                   |                   | 1                        | 1                         |
| Precast (250mm)                   | Core Compressive Strength               | One Test                   |                   | 1                        | 1                         |
|                                   | Corrected Cylinder Compressive Strength | One Test                   |                   | 1                        | 1                         |
|                                   | Equivalent Cube Compressive Strength    | One Test                   |                   | 1                        | 1                         |
| RCC(M20)                          | Compressive Strength(7days and 28days)  | 12 Sets/ 400-450Cum        | 469.03            | 24                       | 24                        |
| Cement Concrete Pavemet (M30)     | Compressive Strength(7days and 28days)  | 8 Sets/ 250-300 Cum        | 259.68            | 16                       | 16                        |

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



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|                                   |                                              |                 |          |   |   |
|-----------------------------------|----------------------------------------------|-----------------|----------|---|---|
| WMM                               | Sieve Analysis                               | One Test        | 1        | 1 |   |
|                                   | Impact Value                                 | One Test        | 1        | 1 |   |
|                                   | Flakiness Index                              | One Test        | 1        | 1 |   |
|                                   | Elongation Index                             | One Test        | 1        | 1 |   |
| DBM                               | SIEVE ANALYSIS                               | One Test        | 1        | 1 |   |
|                                   | STRIPPING VALUE                              | One Test        | 1        | 1 |   |
|                                   | Flakiness Index                              | One Test        | 1        | 1 |   |
|                                   | Elongation Index                             | One Test        | 1        | 1 |   |
|                                   | IMPACT VALUE                                 | One Test        | 1        | 1 |   |
|                                   | Specific gravity                             | One Test        | 1        | 1 |   |
|                                   | Water Absorption                             | One Test        | 1        | 1 |   |
|                                   | Marshal Stability                            | One Test        | 1        | 1 |   |
|                                   | Marshal flow                                 | One Test        | 1        | 1 |   |
|                                   | Percent air Voids                            | One Test        | 1        | 1 |   |
|                                   | Percent Voids in mineral Aggregate           | One Test        | 1        | 1 |   |
|                                   | Percent Voids filled with Bitumen            | One Test        | 1        | 1 |   |
|                                   | Density                                      | One Test        | 1        | 1 |   |
|                                   | Gradation                                    | One Test        | 1        | 1 |   |
|                                   | BC                                           | SIEVE ANALYSIS  | One Test | 1 | 1 |
|                                   |                                              | STRIPPING VALUE | One Test | 1 | 1 |
| Flakiness Index                   |                                              | One Test        | 1        | 1 |   |
| Elongation Index                  |                                              | One Test        | 1        | 1 |   |
| IMPACT VALUE                      |                                              | One Test        | 1        | 1 |   |
| Specific gravity                  |                                              | One Test        | 1        | 1 |   |
| Water Absorption                  |                                              | One Test        | 1        | 1 |   |
| Marshal Stability                 |                                              | One Test        | 1        | 1 |   |
| Marshal flow                      |                                              | One Test        | 1        | 1 |   |
| Percent air Voids                 |                                              | One Test        | 1        | 1 |   |
| Percent Voids in mineral          |                                              | One Test        | 1        | 1 |   |
| Percent Voids filled with Bitumen |                                              | One Test        | 1        | 1 |   |
| BITUMEN                           | Ductility                                    | One Test        | 1        | 1 |   |
|                                   | Softening Point                              | One Test        | 1        | 1 |   |
|                                   | Penetration                                  | One Test        | 1        | 1 |   |
|                                   | Flash Point                                  | One Test        | 1        | 1 |   |
|                                   | Fire Point                                   | One Test        | 1        | 1 |   |
| TACK COAT                         | Rate of spread                               | One Test        | 1        | 1 |   |
| Thermoplastic Compound            | Colour                                       | One Test        | 1        | 1 |   |
|                                   | Softening Point                              | One Test        | 1        | 1 |   |
|                                   | Luminance Factor                             | One Test        | 1        | 1 |   |
|                                   | Cracking Resistance                          | One Test        | 1        | 1 |   |
|                                   | Skid Resistance                              | One Test        | 1        | 1 |   |
|                                   | Yellow Index (For White Thermoplastic Plant) | One Test        | 1        | 1 |   |
|                                   | Drying Time                                  | One Test        | 1        | 1 |   |
|                                   | Binder Content                               | One Test        | 1        | 1 |   |
|                                   | Glass Beads Content                          | One Test        | 1        | 1 |   |

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

# TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-04-30-38 Date: 07-03-22  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore  
Address : Byatarayanapura Sub Division, BBMP, Bangalore  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thansandra  
Agency : Dhananjaya M L, No 90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 04-03-22  
Sample Type : Birla Super 53 grade  
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,  
IS 4031 (Part 1, 2, 3, 4, 5, 6, 11) 1988  
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4  
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5  
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6  
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5  
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5  
IS 4031 Part 11, (RA 2019) DETERMINATION OF DENSITY , Clause 6

Date of test : 05-03-22

Environmental Conditions during test : Temperature: 26°C  
Humidity: 72%

| SL.No. | Physical properties                                           | Results     | Requirement as per IS 12269: 2013 |
|--------|---------------------------------------------------------------|-------------|-----------------------------------|
| 1      | Fineness by dry sieving (%)                                   | 1.95        | —                                 |
| 2      | Fineness by Air permeability method (m <sup>2</sup> /kg, Min) | 285.3       | 225m <sup>2</sup> /kg, Min        |
| 3      | Density (gm/cc)                                               | 3.12        | —                                 |
| 4      | Standard Consistency (%)                                      | 29.5%       | Not specified                     |
| 5      | Initial Setting time                                          | 150 minutes | Not less than 30 minutes          |
| 6      | Final Setting time                                            | 245 minutes | Not more than 600 minutes         |
| 7      | Soundness (Le Chatelier's Method)                             | 1.5mm       | Not more than 10 mm               |

\* The results obtained are satisfactory as per standard requirements.

## Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

2-2  
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Page 1/1  
\*\*\*\*End of Report\*\*\*\*

CIVIL Pro  
Sig.....  
Date.....  
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R. R. R.  
R. R. R.  
THIRU RECHAN  
Authorized Signatory  
Quality Manager

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ನೋಡುಗಳನ್ನು ಪರಿಶೀಲಿಸಿ  
ಪರಿಶೀಲಿಸಿದ ನಂತರ ಸಹಿ

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

### TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2022-04-30-38 Date: 04-04-22

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.

Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020

Customer's Reference : BBMP/EE/BTP/WO/35/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-03-22

Sample Type : Birla Super 53 grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,  
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5  
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6

Date of test : 05-03-22

Environmental Conditions during test : Temperature: 26°C  
Humidity: 72%

| Compressive Strength |                     |                       |                                    |
|----------------------|---------------------|-----------------------|------------------------------------|
| Sl.No.               | Physical properties | Results               | Requirement as per IS 12269: 2013  |
| 1                    | 3 Days              | 28.5N/mm <sup>2</sup> | Not less than 27 N/mm <sup>2</sup> |
| 2                    | 7 Days              | 39.0N/mm <sup>2</sup> | Not less than 37 N/mm <sup>2</sup> |
| 3                    | 28 Days             | 58.5N/mm <sup>2</sup> | Not less than 53 N/mm <sup>2</sup> |

\* The results obtained are satisfactory as per standard requirements.

#### Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

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FOR CIVIL Pro.

KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

Page 1/1

\*\*\*\*End of Report\*\*\*\*



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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

### TEST REPORT ON COARSE AGGREGATES

Date: 07-03-22

Lab ID : CP-2022-04-30-38  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample condition : Satisfactory  
Date of Receipt : 04-03-22  
Sample Type : 40mm down size coarse aggregate  
Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates )  
IS: 2386 :1963(Part - 1,3,4) RA2021  
IS 2386 Part 1: Particle Size and Shape  
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption  
IS 2386 Part 4: Mechanical Properties  
Date of test : 04-03-22

### SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

| Total weight taken |           | 15000 grams            |                                   |                              |           |                             |
|--------------------|-----------|------------------------|-----------------------------------|------------------------------|-----------|-----------------------------|
| Sample No.         | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
| 1                  | 80 mm     | 0                      | 0                                 | 0.0                          | 100       | 100                         |
| 2                  | 40 mm     | 254                    | 254                               | 1.7                          | 98.3      | 90-100                      |
| 3                  | 20 mm     | 5422                   | 5676                              | 37.8                         | 62.2      | 30-70                       |
| 4                  | 10 mm     | 4132                   | 9808                              | 65.4                         | 34.6      | 10-35                       |
| 5                  | 4.75 mm   | 4854                   | 14662                             | 97.7                         | 2.3       | 0-5                         |
| 6                  | Pan       | 338                    | 15000                             | 100.0                        | 0         | ---                         |

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20.03.22

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ಅನುಮೋದನೆ ನೀಡಲಾಗಿದೆ  
20.03.22



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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
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## TEST REPORT ON COARSE AGGREGATES

**Lab ID**

: CP-2022-04-30-38

**Date: 07-03-22**

### PHYSICAL PROPERTIES

| <b>PHYSICAL PROPERTIES</b> |                                |               |                                                                                              |
|----------------------------|--------------------------------|---------------|----------------------------------------------------------------------------------------------|
| <b>Sl.no</b>               | <b>Tests</b>                   | <b>Result</b> | <b>Requirements as per IS:383-2016</b>                                                       |
| <b>1</b>                   | Flakiness Index(%)             | <b>12.4</b>   | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate |
| <b>2</b>                   | Elongation Index(%)            | <b>11.8</b>   |                                                                                              |
| <b>3</b>                   | Specific Gravity               | <b>2.68</b>   | —                                                                                            |
| <b>4</b>                   | Bulk Density(Loose) (Kg/l)     | <b>1.48</b>   | —                                                                                            |
| <b>5</b>                   | Bulk Density(Compacted) (Kg/l) | <b>1.52</b>   | —                                                                                            |
| <b>6</b>                   | Water Absorption(%)            | <b>0.22</b>   | —                                                                                            |

\* The results obtained are satisfactory as per standard requirements.

**Note:**

**Note:**  
The results pertain to the samples received and tested.  
All information furnished by Customer/Representative  
Any correction in the report will make this report invalid  
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Samples will be disposed after 30 days from the date of issue of test certificate

  
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 ಬಿ.ಬಿ.ಎಂ.ಓ. ಹೈದರಾಬಾದ್ ನಗರ ಮಹಾನಗರ ಪಂಚಾಯತ್

Page 2/2

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 R. KARTHIK RECHAN  
 Authorized Signatory  
 Quality Manager

Page 2/2

\*\*\*\*End of Report\*\*\*\*

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Format No: CP/TF/01

## TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2022-04-30-38 Date: 07-03-22

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.

Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020

Customer Reference : BBMP/EE/BTP/WO/35/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-03-22

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates )  
IS: 2386 :1963(Part - 1,3,4) RA2021  
IS 2386 Part 1: Particle Size and Shape  
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption  
IS 2386 Part 4: Mechanical Properties

Date of test : 04-03-22

### SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|------------|-----------|------------------------|-----------------------------------|------------------------------|-----------|-----------------------------|
| 1          | 40 mm     | 0                      | 0                                 | 0                            | 100       | 100                         |
| 2          | 20 mm     | 235                    | 235                               | 4.7                          | 95.3      | 90-100                      |
| 3          | 10 mm     | 2470                   | 2705                              | 54.1                         | 45.9      | 25-55                       |
| 4          | 4.75 mm   | 2133                   | 4838                              | 96.8                         | 3.2       | 0-10                        |
| 5          | Pan       | 162                    | 5000                              | 100                          | 0         | -                           |

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ಇದರಲ್ಲಿ ಉಳಿದಿರುವ  
ಪದಾರ್ಥದ ತೂಕವು 162 ಗ್ರಾಂ.

ಇದರಲ್ಲಿ ಉಳಿದಿರುವ  
ಪದಾರ್ಥದ ತೂಕವು 162 ಗ್ರಾಂ.



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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

## TEST REPORT ON COARSE AGGREGATES

Lab ID

: CP-2022-04-30-38

Date: 07-03-22

### PHYSICAL PROPERTIES

| Sl.no | Tests                          | Result | Requirements as per IS:383-2016                                                                                                                                                                                                               |
|-------|--------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1     | Flakiness Index(%)             | 13.1   | Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate                                                                                                                                                  |
| 2     | Elongation Index(%)            | 12.5   |                                                                                                                                                                                                                                               |
| 3     | Specific Gravity               | 2.67   | —                                                                                                                                                                                                                                             |
| 4     | Bulk Density(Loose) (Kg/l)     | 1.54   | —                                                                                                                                                                                                                                             |
| 5     | Bulk Density(Compacted) (Kg/l) | 1.58   | —                                                                                                                                                                                                                                             |
| 6     | Water Absorption(%)            | 0.22   | —                                                                                                                                                                                                                                             |
| 7     | Aggregate crushing Value(%)    | 24.5   | Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface. |
| 8     | Aggregate Impact Value(%)      | 22.8   | 30% for Aggregates to be used in concrete for wearing Surface,<br>45% for Aggregates to be used in concrete other than for wearing Surface.                                                                                                   |

• The results obtained are satisfactory as per standard requirements.

#### Note:

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Date..... Authorized Signature  
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

## TEST REPORT OF FINE AGGREGATE

Date: 07-03-22

Lab ID : CP-2022-04-30-38  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 04-03-22  
Sample Type : Fine Aggregate  
Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)  
IS: 2386 : 1963 (Part - 1, 3) RA2021  
IS 2386 Part 1: Particle Size and Shape  
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption  
Date of test : 04-03-22

| Sieve no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 |                 |                  |                 |
|----------|------------|-----------------------|----------------------------------|------------------------------|-----------|--------------------------------|-----------------|------------------|-----------------|
|          |            |                       |                                  |                              |           | Grading Zone I                 | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1        | 10 mm      | 0                     | 0                                | 0.0                          | 100.0     | 100                            | 100             | 100              | 100             |
| 2        | 4.75 mm    | 32                    | 32                               | 3.2                          | 96.8      | 90-100                         | 90-100          | 90-100           | 95-100          |
| 3        | 2.36 mm    | 44                    | 76                               | 7.6                          | 92.4      | 60-95                          | 75-100          | 85-100           | 95-100          |
| 4        | 1.18 mm    | 215                   | 291                              | 29.1                         | 70.9      | 30-70                          | 55-90           | 75-100           | 90-100          |
| 5        | 600 micron | 245                   | 536                              | 53.6                         | 46.4      | 15-34                          | 35-59           | 60-79            | 80-100          |
| 6        | 300 micron | 201                   | 737                              | 73.7                         | 26.3      | 5-20                           | 8-30            | 12-40            | 15-50           |
| 7        | 150 micron | 178                   | 915                              | 91.5                         | 8.5       | 0-10                           | 0-10            | 0-10             | 0-15            |
| 8        | Pan        | 85                    | 1000                             | 100.0                        | 0.0       | ---                            | ---             | ---              | ---             |

Result : The tested Sample Conforms to Grading Zone II

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ಪ್ರತಿಬಿಂಬಿತ ದಾಖಲೆಗಳನ್ನು ಒದಗಿಸುವುದು



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## TEST REPORT OF FINE AGGREGATE

Lab ID

: CP-2022-04-30-38

Date: 07-03-22

### PHYSICAL PROPERTIES

| Sl. no | Tests                            | Result | Requirements as per IS 383:2016                                                                                                             |
|--------|----------------------------------|--------|---------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Water Absorption(%)              | 1.42   | —                                                                                                                                           |
| 2      | Specific Gravity                 | 2.53   | —                                                                                                                                           |
| 3      | Material finer than 75 micron(%) | 8.1    | Uncrushed fine Aggregate Max 3%,<br>Crushed Fine aggregate Max 15%,<br>Mixed Fine aggregate Max 12%,<br>Manufactured Fine aggregate Max 10% |

The results obtained are satisfactory as per standard requirements.

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*[Signature]*

KARTHIK RECHAN

Authorized Signatory

Quality Manager

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

### TEST RESULTS OF STEEL

Lab ID : CP-2022-04-30-38 Date: 06-03-22

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.

Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020

Customer's Reference : BBMP/EE/BTP/WO/35/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-03-22

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2019.

Date of test : 05-03-22

| Sl.No | Identification of sample | Grade of the sample | Diameter of the steel bar | Weight of the sample | Yield stress         | Tensile strength     | Elongation | Bend test    | Rebend test  |
|-------|--------------------------|---------------------|---------------------------|----------------------|----------------------|----------------------|------------|--------------|--------------|
|       |                          |                     | (mm)                      | (kg/m)               | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> ) | (%)        |              |              |
| 1     | Sunvik                   | Fe500               | 10                        | 0.616                | 528                  | 672                  | 20.0%      | Satisfactory | Satisfactory |
| 2     | Sunvik                   | Fe500               | 12                        | 0.888                | 544                  | 668                  | 20.0%      | Satisfactory | Satisfactory |

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## TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2022-04-30-38 Date: 09-03-22

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.

Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020

Customer's Reference : BBMP/EE/BTP/WO/35/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-03-22

Sample Type /Size : Precast Cover Slab(100 mm Thick)

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 05/03/2022

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area    | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---------|---------------------|----------------------|--------------------|--------------------|---------|--------------|---------------------------|-----------------------------------------|--------------------------------------|
|         |                     | (mm)                 | (mm)               | (kg)               | (Sq.mm) | (KN)         | (N/mm <sup>2</sup> )      | (N/mm <sup>2</sup> )                    | (N/mm <sup>2</sup> )                 |
|         | Cover Slab-1        | 75.51                | 100.48             | 1.116              | 4477    | 80.9         | 18.1                      | 16.8                                    | 21.0                                 |
|         | Cover Slab-2        | 75.49                | 100.52             | 1.122              | 4475    | 82.3         | 18.4                      | 17.1                                    | 21.4                                 |
|         | Cover Slab-3        | 75.50                | 100.51             | 1.118              | 4476    | 81.5         | 18.2                      | 16.9                                    | 21.2                                 |

The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

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## TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2022-04-30-38 Date: 09-03-22

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.

Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020

Customer's Reference : BBMP/EE/BTP/WO/35/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-03-22

Sample Type /Size : Precast Cover Slab(250 mm Thick)

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete

Date of test : 05/03/2022

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area    | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---------|---------------------|----------------------|--------------------|--------------------|---------|--------------|---------------------------|-----------------------------------------|--------------------------------------|
|         |                     | (mm)                 | (mm)               | (kg)               | (Sq.mm) | (KN)         | (N/mm <sup>2</sup> )      | (N/mm <sup>2</sup> )                    | (N/mm <sup>2</sup> )                 |
|         | Cover Slab-1        | 150.24               | 250.58             | 2.314              | 17725   | 350.5        | 19.8                      | 18.4                                    | 23.0                                 |
|         | Cover Slab-2        | 150.38               | 250.62             | 2.318              | 17758   | 340.5        | 19.2                      | 17.8                                    | 22.3                                 |
|         | Cover Slab-3        | 150.48               | 250.42             | 2.324              | 17781   | 360.5        | 20.3                      | 18.9                                    | 23.6                                 |

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Certificate No.: TC-5548

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## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/03/2022

Lab ID : CP-2022-04-30-38  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 12-03-22  
Customer ID : Drain Bottom Raft - Maruthi Layout Cross Road 2  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 7 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/03/2022

| Sl. No. | Identification Mark                             | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|-------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                 |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Bottom Raft - Maruthi Layout Cross Road 2 | M20               | 10/03/2022      | 17/03/2022      | 149.01 X<br>150.00 X<br>149.54 | 22352                | 8.703                | 413.7        | 18.5                 | 18.6                         |
| 2       | Drain Bottom Raft - Maruthi Layout Cross Road 2 | M20               | 10/03/2022      | 17/03/2022      | 151.12 X<br>149.98 X<br>150.69 | 22666                | 8.140                | 418.1        | 18.4                 |                              |
| 3       | Drain Bottom Raft - Maruthi Layout Cross Road 2 | M20               | 10/03/2022      | 17/03/2022      | 150.38 X<br>150.54 X<br>149.81 | 22638                | 8.732                | 428.4        | 18.9                 |                              |

The results obtained are satisfactory as per standard requirements.

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## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/04/2022

Lab ID : CP-2022-04-30-38  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 12-03-22  
Customer ID : Drain Bottom Raft - Maruthi Layout Cross Road 2  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 28 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5  
Date of test : 07/04/2022

| Sl. No. | Identification Mark                             | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|-------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                 |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Bottom Raft - Maruthi Layout Cross Road 2 | M20               | 10/03/2022      | 07/04/2022      | 149.06 X<br>149.20 X<br>150.56 | 22240                | 8.388                | 523.3        | 23.5                 | 23.1                         |
| 2       | Drain Bottom Raft - Maruthi Layout Cross Road 2 | M20               | 10/03/2022      | 07/04/2022      | 151.69 X<br>151.71 X<br>150.06 | 23012                | 9.056                | 521.7        | 22.7                 |                              |
| 3       | Drain Bottom Raft - Maruthi Layout Cross Road 2 | M20               | 10/03/2022      | 07/04/2022      | 149.82 X<br>151.09 X<br>149.67 | 22637                | 8.766                | 523.6        | 23.1                 |                              |

The results obtained are satisfactory as per standard requirements.

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## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/03/2022

Lab ID : CP-2022-04-30-38  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 12-03-22  
Customer ID : Drain Bottom Raft - Maruthi Layout Cross Road 2  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 7 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/03/2022

| Sl. No. | Identification Mark                             | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|-------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                 |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Bottom Raft - Maruthi Layout Cross Road 2 | M20               | 10/03/2022      | 17/03/2022      | 149.75 X<br>151.23 X<br>150.99 | 22646                | 8.771                | 424.5        | 18.7                 | 18.4                         |
| 2       | Drain Bottom Raft - Maruthi Layout Cross Road 2 | M20               | 10/03/2022      | 17/03/2022      | 151.55 X<br>149.74 X<br>149.02 | 22694                | 8.690                | 417.1        | 18.4                 |                              |
| 3       | Drain Bottom Raft - Maruthi Layout Cross Road 2 | M20               | 10/03/2022      | 17/03/2022      | 150.20 X<br>149.95 X<br>149.07 | 22522                | 8.211                | 406.2        | 18.0                 |                              |

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## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/04/2022

Lab ID : CP-2022-04-30-38  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 12-03-22  
Customer ID : Drain Bottom Raft - Maruthi Layout Cross Road 2  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 28 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/04/2022

| Sl. No. | Identification Mark                             | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|-------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                 |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Bottom Raft - Maruthi Layout Cross Road 2 | M20               | 10/03/2022      | 07/04/2022      | 150.30 X<br>150.02 X<br>151.98 | 22547                | 8.133                | 532.5        | 23.6                 | 23.3                         |
| 2       | Drain Bottom Raft - Maruthi Layout Cross Road 2 | M20               | 10/03/2022      | 07/04/2022      | 150.34 X<br>151.58 X<br>149.65 | 22790                | 8.799                | 514.6        | 22.6                 |                              |
| 3       | Drain Bottom Raft - Maruthi Layout Cross Road 2 | M20               | 10/03/2022      | 07/04/2022      | 151.16 X<br>151.42 X<br>151.08 | 22889                | 8.723                | 543.6        | 23.8                 |                              |

The results obtained are satisfactory as per standard requirements.

Note:

1. The results pertain to the samples received and tested.

2. Information furnished by Customer/Representative

by correction in the report will make this report invalid

3. This report without prior written approval should not be reproduced or published in full or part.

4. Samples will be disposed after 30 days from the date of issue of test certificate

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\*\*\*\*End of Report\*\*\*\*



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KARTHIK RECHAN  
Authorized Signatory  
Quality Manager



## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/03/2022

Lab ID  
Customer  
Address  
Project Name

: CP-2022-04-30-38  
: Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
: Byatarayanapura Sub Division, BBMP, Bangalore.  
: Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.

Agency  
Customer's Reference

: Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
: BBMP/EE/BTP/WO/35/2021-22

Source of Sample  
Sample Condition  
Date of Receipt

: Sample supplied by Agency  
: Satisfactory  
: 14-03-22

Customer ID

: Drain Bottom Raft - Maruthi Layout sri Nilaya House Road

Sample Type /Size

: 150X150X150 mm

Sample grade/Age

: M20 / 7 Days Compressive Strength

Reference to BIS codes

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/03/2022

| Sl. No. | Identification Mark                                      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|----------------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                          |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Bottom Raft - Maruthi Layout sri Nilaya House Road | M20               | 12/03/2022      | 19/03/2022      | 150.02 X<br>149.08 X<br>149.99 | 22366                | 8.639                | 420.9        | 18.8                 | 18.4                         |
| 2       | Drain Bottom Raft - Maruthi Layout sri Nilaya House Road | M20               | 12/03/2022      | 19/03/2022      | 150.80 X<br>151.08 X<br>150.39 | 22783                | 8.755                | 412.5        | 18.1                 |                              |
| 3       | Drain Bottom Raft - Maruthi Layout sri Nilaya House Road | M20               | 12/03/2022      | 19/03/2022      | 150.03 X<br>149.58 X<br>150.27 | 22442                | 8.764                | 411.1        | 18.3                 |                              |

The results obtained are satisfactory as per standard requirements.

Note:

1. The results pertain to the samples received and tested.

2. Information furnished by Customer/Representative

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5. Samples will be disposed after 30 days from the date of issue of test certificate

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KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

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\*\*\*\*End of Report\*\*\*\*



## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/04/2022

Lab ID : CP-2022-04-30-38  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 14-03-22  
Customer ID : Drain Bottom Raft - Maruthi Layout sri Nilaya House Road  
Sample Type / Size : 150X150X150 mm  
Sample grade / Age : M20 / 28 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5  
Date of test : 09/04/2022

| Sl. No. | Identification Mark                                      | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|----------------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                          |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Bottom Raft - Maruthi Layout sri Nilaya House Road | M20               | 12/03/2022      | 09/04/2022      | 151.05 X<br>150.82 X<br>151.72 | 22781                | 8.721                | 537.9        | 23.6                 | 23.1                         |
| 2       | Drain Bottom Raft - Maruthi Layout sri Nilaya House Road | M20               | 12/03/2022      | 09/04/2022      | 149.40 X<br>149.07 X<br>150.77 | 22271                | 8.626                | 499.8        | 22.4                 |                              |
| 3       | Drain Bottom Raft - Maruthi Layout sri Nilaya House Road | M20               | 12/03/2022      | 09/04/2022      | 150.35 X<br>150.26 X<br>150.62 | 22593                | 8.132                | 527.5        | 23.4                 |                              |

The results obtained are satisfactory as per standard requirements.

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Authorized Signatory  
Quality Manager

Page 1/1  
\*\*\*\*End of Report\*\*\*\*

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## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/03/2022

Lab ID : CP-2022-04-30-38  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 16-03-22  
Customer ID : Drain Side Wall - Maruthi Layout 5th A Cross Road  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 7 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5  
Date of test : 21/03/2022

| Sl. No. | Identification Mark                               | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|---------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                   |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Side Wall - Maruthi Layout 5th A Cross Road | M20               | 14/03/2022      | 21/03/2022      | 150.04 X<br>149.42 X<br>149.36 | 22419                | 8.543                | 414.9        | 18.5                 | 18.6                         |
| 2       | Drain Side Wall - Maruthi Layout 5th A Cross Road | M20               | 14/03/2022      | 21/03/2022      | 150.33 X<br>151.97 X<br>150.14 | 22846                | 8.225                | 417.9        | 18.3                 |                              |
| 3       | Drain Side Wall - Maruthi Layout 5th A Cross Road | M20               | 14/03/2022      | 21/03/2022      | 149.71 X<br>150.81 X<br>151.78 | 22578                | 9.020                | 425.9        | 18.9                 |                              |

The results obtained are satisfactory as per standard requirements.

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KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

Page 1/1

\*\*\*\*End of Report\*\*\*\*

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/04/2022

Lab ID : CP-2022-04-30-38  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 16-03-22  
Customer ID : Drain Side Wall - Maruthi Layout 5th A Cross Road  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 28 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/04/2022

| Sl. No. | Identification Mark                               | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|---------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                   |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
|         | Drain Side Wall - Maruthi Layout 5th A Cross Road | M20               | 14/03/2022      | 11/04/2022      | 150.33 X<br>149.82 X<br>150.09 | 22523                | 8.661                | 538.9        | 23.9                 | 23.2                         |
|         | Drain Side Wall - Maruthi Layout 5th A Cross Road | M20               | 14/03/2022      | 11/04/2022      | 149.49 X<br>150.80 X<br>149.39 | 22543                | 8.546                | 505.9        | 22.4                 |                              |
|         | Drain Side Wall - Maruthi Layout 5th A Cross Road | M20               | 14/03/2022      | 11/04/2022      | 150.61 X<br>149.94 X<br>149.15 | 22584                | 9.008                | 521.8        | 23.1                 |                              |

The results obtained are satisfactory as per standard requirements.

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For CIVIL Pro.  
KARTHIK RECHAN  
Authorized Signatory  
Quality Manager



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KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

Page 1/1  
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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No. CP/TF/01

## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/03/2022

Lab ID : CP-2022-04-30-38

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.

Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020

Customer's Reference : BBMP/EE/BTP/WO/35/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-03-22

Customer ID : Drain Side Wall - Maruthi Layout Badmiton Court Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/03/2022

| Sl. No. | Identification Mark                                  | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|------------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                      |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Side Wall - Maruthi Layout Badmiton Court Road | M20               | 16/03/2022      | 23/03/2022      | 149.62 X<br>151.08 X<br>151.53 | 22606                | 8.220                | 416.4        | 18.4                 | 18.4                         |
| 2       | Drain Side Wall - Maruthi Layout Badmiton Court Road | M20               | 16/03/2022      | 23/03/2022      | 149.91 X<br>150.76 X<br>150.26 | 22599                | 8.115                | 423.1        | 18.7                 |                              |
| 3       | Drain Side Wall - Maruthi Layout Badmiton Court Road | M20               | 16/03/2022      | 23/03/2022      | 149.05 X<br>151.73 X<br>149.79 | 22616                | 9.004                | 410.3        | 18.1                 |                              |

The results obtained are satisfactory as per standard requirements.

Note:

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Information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

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\*\*\*\*\*End of Report\*\*\*\*\*



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KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 13/04/2022

Lab ID : CP-2022-04-30-38  
 Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
 Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
 Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
 Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
 Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
 Source of Sample : Sample supplied by Agency  
 Sample Condition : Satisfactory  
 Date of Receipt : 18-03-22  
 Customer ID : Drain Side Wall - Maruthi Layout Badmiton Court Road  
 Sample Type /Size : 150X150X150 mm  
 Sample grade/Age : M20 / 28 Days Compressive Strength  
 Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/04/2022

| Sl. No. | Identification Mark                                  | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|------------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                      |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Side Wall - Maruthi Layout Badmiton Court Road | M20               | 16/03/2022      | 13/04/2022      | 150.48 X<br>149.96 X<br>149.12 | 22566                | 9.068                | 536.7        | 23.8                 | 23.3                         |
| 2       | Drain Side Wall - Maruthi Layout Badmiton Court Road | M20               | 16/03/2022      | 13/04/2022      | 150.27 X<br>149.70 X<br>151.42 | 22496                | 9.011                | 506.6        | 22.5                 |                              |
| 3       | Drain Side Wall - Maruthi Layout Badmiton Court Road | M20               | 16/03/2022      | 13/04/2022      | 150.04 X<br>150.56 X<br>151.96 | 22590                | 8.514                | 529.8        | 23.5                 |                              |

The results obtained are satisfactory as per standard requirements.

te:

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 ಮ.ಮ.ಪ. ಭೂಮಿಮಾಪನ ಮತ್ತು ನಿರ್ಮಾಣ ಇಲಾಖೆ



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 Authorized Signatory  
 Quality Manager

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## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 25/03/2022

Lab ID : CP-2022-04-30-38  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 21-03-22  
Customer ID : Drain Side Wall - Maruthi Layout Cross Road 3  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 7 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5  
Date of test : 25/03/2022

| Sl. No. | Identification Mark                           | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|-----------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                               |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
|         | Drain Side Wall - Maruthi Layout Cross Road 3 | M20               | 18/03/2022      | 25/03/2022      | 150.70 X<br>151.11 X<br>149.02 | 22772                | 8.535                | 412.3        | 18.1                 | 18.4                         |
|         | Drain Side Wall - Maruthi Layout Cross Road 3 | M20               | 18/03/2022      | 25/03/2022      | 150.03 X<br>151.03 X<br>151.93 | 22658                | 8.638                | 414.5        | 18.3                 |                              |
|         | Drain Side Wall - Maruthi Layout Cross Road 3 | M20               | 18/03/2022      | 25/03/2022      | 149.72 X<br>151.04 X<br>150.89 | 22613                | 8.841                | 426.4        | 18.9                 |                              |

The results obtained are satisfactory as per standard requirements.

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FOR CIVIL PRO

Sig.....  
Date.....  
R KARTHIK RECHAN  
Authorized Signatory  
Quality Manager



## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 15/04/2022

Lab ID : CP-2022-04-30-38  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 21-03-22  
Customer ID : Drain Side Wall - Maruthi Layout Cross Road 3  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 28 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 15/04/2022

| Sl. No. | Identification Mark                           | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|-----------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                               |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Drain Side Wall - Maruthi Layout Cross Road 3 | M20               | 18/03/2022      | 15/04/2022      | 151.94 X<br>150.06 X<br>150.39 | 22800                | 8.735                | 534.7        | 23.4                 | 23.1                         |
| 2       | Drain Side Wall - Maruthi Layout Cross Road 3 | M20               | 18/03/2022      | 15/04/2022      | 149.36 X<br>149.01 X<br>149.57 | 22257                | 8.606                | 504.7        | 22.7                 |                              |
| 3       | Drain Side Wall - Maruthi Layout Cross Road 3 | M20               | 18/03/2022      | 15/04/2022      | 151.00 X<br>149.89 X<br>150.94 | 22632                | 8.771                | 523.3        | 23.1                 |                              |

\* The results obtained are satisfactory as per standard requirements.

### Note:

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All information furnished by Customer/Representative

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ಕರ್ನಾಟಕ ರಾಜ್ಯ ಸರ್ಕಾರ  
ಬಿ.ಬಿ.ಎ.ಪಿ. ಮೈಸೂರು ನಗರ ಪಂಚಾಯತ್

Page 1/1

\*\*\*\*End of Report\*\*\*\*



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**KARTHIK RECHAN**  
Authorized Signatory  
Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
TEST MANAGEMENT | SURVEYING SERVICES



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No CP/TF/01

## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/03/2022

Lab ID : CP-2022-04-30-38  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 12-03-22  
Customer ID : Culvert Bottom Raft - Maruthi Layout 5th Cross Road  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 7 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/03/2022

| Sl. No. | Identification Mark                                 | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|-----------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                     |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Culvert Bottom Raft - Maruthi Layout 5th Cross Road | M20               | 10/03/2022      | 17/03/2022      | 151.07 X<br>149.35 X<br>151.96 | 22563                | 9.025                | 408.1        | 18.1                 | 18.3                         |
| 2       | Culvert Bottom Raft - Maruthi Layout 5th Cross Road | M20               | 10/03/2022      | 17/03/2022      | 149.74 X<br>149.57 X<br>149.75 | 22397                | 8.406                | 417.5        | 18.6                 |                              |
| 3       | Culvert Bottom Raft - Maruthi Layout 5th Cross Road | M20               | 10/03/2022      | 17/03/2022      | 151.03 X<br>150.76 X<br>150.31 | 22770                | 8.904                | 416.0        | 18.3                 |                              |

\* The results obtained are satisfactory as per standard requirements.

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ಸಹಾಯಕ ಅಭಿಯಂತರರು  
ಜಿ.ಬಿ.ಎಂ.ಸಿ. ವ್ಯಾಪಾರಾಧಿಕಾರ ಕಛೇರಿ, ಬಿ.ಎಂ.ಸಿ. ವ್ಯಾಪಾರಾಧಿಕಾರ ಕಛೇರಿ, ಬಿ.ಎಂ.ಸಿ. ವ್ಯಾಪಾರಾಧಿಕಾರ ಕಛೇರಿ



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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/04/2022

Lab ID : CP-2022-04-30-38  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 12-03-22  
Customer ID : Culvert Bottom Raft - Maruthi Layout 5th Cross Road  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 28 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5  
Date of test : 07/04/2022

| Sl. No. | Identification Mark                                 | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|-----------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                     |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Culvert Bottom Raft - Maruthi Layout 5th Cross Road | M20               | 10/03/2022      | 07/04/2022      | 149.46 X<br>150.57 X<br>149.69 | 22503                | 8.591                | 524.0        | 23.3                 | 23.1                         |
| 2       | Culvert Bottom Raft - Maruthi Layout 5th Cross Road | M20               | 10/03/2022      | 07/04/2022      | 151.65 X<br>151.85 X<br>149.71 | 23028                | 8.650                | 513.5        | 22.3                 |                              |
| 3       | Culvert Bottom Raft - Maruthi Layout 5th Cross Road | M20               | 10/03/2022      | 07/04/2022      | 150.25 X<br>151.86 X<br>149.36 | 22818                | 8.584                | 539.8        | 23.7                 |                              |

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ಶಾಂತಿ, ನ್ಯಾಯ ಮತ್ತು ಸಮೃದ್ಧಿ

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Sig.....

Date.....

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Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL



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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-30-38 Date: 17/03/2022

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.

Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020

Customer's Reference : BBMP/EE/BTP/WO/35/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-03-22

Customer ID : Culvert Bottom Raft - Maruthi Layout 5th Cross Road

Sample Type / Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5

Date of test : 17/03/2022

| Sl. No. | Identification Mark                                 | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|-----------------------------------------------------|-------------------|-----------------|-----------------|---------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                     |                   |                 |                 | (mm)                      | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
|         | Culvert Bottom Raft - Maruthi Layout 5th Cross Road | M20               | 10/03/2022      | 17/03/2022      | 151.59 X                  | 22664                | 8.648                | 428.9        | 18.9                 | 18.6                         |
|         |                                                     |                   |                 |                 | 149.51 X                  |                      |                      |              |                      |                              |
|         |                                                     |                   |                 |                 | 149.17                    |                      |                      |              |                      |                              |
|         | Culvert Bottom Raft - Maruthi Layout 5th Cross Road | M20               | 10/03/2022      | 17/03/2022      | 151.27 X                  | 22802                | 8.857                | 418.3        | 18.3                 | 18.6                         |
|         |                                                     |                   |                 |                 | 150.73 X                  |                      |                      |              |                      |                              |
|         |                                                     |                   |                 |                 | 150.05                    |                      |                      |              |                      |                              |
|         | Culvert Bottom Raft - Maruthi Layout 5th Cross Road | M20               | 10/03/2022      | 17/03/2022      | 151.94 X                  | 23025                | 8.825                | 423.6        | 18.4                 | 18.6                         |
|         |                                                     |                   |                 |                 | 151.54 X                  |                      |                      |              |                      |                              |
|         |                                                     |                   |                 |                 | 149.42                    |                      |                      |              |                      |                              |

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Certificate No.: TC-5548

Format No CP/TF/01

## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/04/2022

Lab ID : CP-2022-04-30-38

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.

Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020

Customer's Reference : BBMP/EE/BTP/WO/35/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-03-22

Customer ID : Culvert Bottom Raft - Maruthi Layout 5th Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/04/2022

| Sl. No. | Identification Mark                                 | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|-----------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                     |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Culvert Bottom Raft - Maruthi Layout 5th Cross Road | M20               | 10/03/2022      | 07/04/2022      | 150.11 X<br>150.35 X<br>151.11 | 22568                | 8.586                | 536.3        | 23.8                 | 23.3                         |
| 2       | Culvert Bottom Raft - Maruthi Layout 5th Cross Road | M20               | 10/03/2022      | 07/04/2022      | 150.42 X<br>150.44 X<br>149.64 | 22630                | 8.547                | 518.8        | 22.9                 |                              |
| 3       | Culvert Bottom Raft - Maruthi Layout 5th Cross Road | M20               | 10/03/2022      | 07/04/2022      | 151.43 X<br>149.54 X<br>150.18 | 22645                | 9.067                | 526.6        | 23.3                 |                              |

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ಕಾರ್ಯದರ್ಶಿ, ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ



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KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

Page 1/1

\*\*\*\*End of Report\*\*\*\*

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/03/2022

Lab ID : CP-2022-04-30-38  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 12-03-22  
Customer ID : Culvert Bottom Raft - Maruthi Layout 5th Cross Road  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 7 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5  
Date of test : 17/03/2022

| Sl. No. | Identification Mark                                 | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|-----------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                     |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Culvert Bottom Raft - Maruthi Layout 5th Cross Road | M20               | 10/03/2022      | 17/03/2022      | 150.00 X<br>149.96 X<br>149.02 | 22494                | 9.020                | 410.9        | 18.3                 | 18.2                         |
| 2       | Culvert Bottom Raft - Maruthi Layout 5th Cross Road | M20               | 10/03/2022      | 17/03/2022      | 150.61 X<br>151.57 X<br>149.40 | 22827                | 8.409                | 414.8        | 18.2                 |                              |
| 3       | Culvert Bottom Raft - Maruthi Layout 5th Cross Road | M20               | 10/03/2022      | 17/03/2022      | 150.01 X<br>151.85 X<br>149.00 | 22779                | 8.904                | 414.3        | 18.2                 |                              |

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No: CP/TF/01

## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-30-38 Date: 07/04/2022

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.

Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020

Customer's Reference : BBMP/EE/BTP/WO/35/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-03-22

Customer ID : Culvert Bottom Raft - Maruthi Layout 5th Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/04/2022

| Sl. No. | Identification Mark                                 | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|-----------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                     |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Culvert Bottom Raft - Maruthi Layout 5th Cross Road | M20               | 10/03/2022      | 07/04/2022      | 150.70 X<br>149.80 X<br>150.66 | 22575                | 8.362                | 525.2        | 23.3                 | 23.0                         |
| 2       | Culvert Bottom Raft - Maruthi Layout 5th Cross Road | M20               | 10/03/2022      | 07/04/2022      | 149.59 X<br>151.45 X<br>151.66 | 22655                | 8.691                | 499.4        | 22.0                 |                              |
| 3       | Culvert Bottom Raft - Maruthi Layout 5th Cross Road | M20               | 10/03/2022      | 07/04/2022      | 149.82 X<br>151.00 X<br>151.89 | 22623                | 8.383                | 536.9        | 23.7                 |                              |

The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

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Samples will be disposed after 30 days from the date of issue of test certificate

ಶ್ರೀಮತಿ. ಕರ್ತಿಕಾ ರೇಚನ್  
ಪ್ರತಿಷ್ಠೆ, ಬೆಂಗಳೂರು



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Sig.....  
Date.....  
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Authorized Signatory  
Quality Manager

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No. : TC-5548

Format No. CP/TF/01

## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-30-38 Date: 21/03/2022  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 16-03-22  
Customer ID : Culvert Side Wall - Maruthi Layout Cross Road 3  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 7 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5  
Date of test : 21/03/2022

| SL. No. | Identification Mark                             | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|-------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                 |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Culvert Side Wall - Maruthi Layout Cross Road 3 | M20               | 14/03/2022      | 21/03/2022      | 151.92 X<br>151.25 X<br>151.65 | 22977                | 8.588                | 423.3        | 18.4                 | 18.3                         |
| 2       | Culvert Side Wall - Maruthi Layout Cross Road 3 | M20               | 14/03/2022      | 21/03/2022      | 149.92 X<br>151.32 X<br>151.87 | 22686                | 8.702                | 411.5        | 18.1                 |                              |
| 3       | Culvert Side Wall - Maruthi Layout Cross Road 3 | M20               | 14/03/2022      | 21/03/2022      | 151.47 X<br>149.71 X<br>151.53 | 22676                | 8.657                | 414.1        | 18.3                 |                              |

The results obtained are satisfactory as per standard requirements.

Re:

Results pertain to the samples received and tested.

Information furnished by Customer/Representative

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ಸಹಾಯಕ ಅಭಿಯಂತರರು  
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Page 1/1  
\*\*\*\*End of Report\*\*\*\*



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Sig.....  
Date.....  
R. KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES



## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/04/2022

Lab ID : CP-2022-04-30-38  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 16-03-22  
Customer ID : Culvert Side Wall - Maruthi Layout Cross Road 3  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 28 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/04/2022

| Sl. No. | Identification Mark                             | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|-------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                 |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Culvert Side Wall - Maruthi Layout Cross Road 3 | M20               | 14/03/2022      | 11/04/2022      | 150.81 X<br>149.64 X<br>151.31 | 22567                | 8.610                | 521.7        | 23.1                 | 23.1                         |
| 2       | Culvert Side Wall - Maruthi Layout Cross Road 3 | M20               | 14/03/2022      | 11/04/2022      | 151.49 X<br>151.70 X<br>150.28 | 22982                | 8.462                | 518.6        | 22.6                 |                              |
| 3       | Culvert Side Wall - Maruthi Layout Cross Road 3 | M20               | 14/03/2022      | 11/04/2022      | 150.55 X<br>149.48 X<br>151.39 | 22504                | 8.851                | 534.5        | 23.8                 |                              |

The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

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KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

Page 1/1

\*\*\*\*End of Report\*\*\*\*



## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/03/2022

Lab ID : CP-2022-04-30-38  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 16-03-22  
Customer ID : Culvert Side Wall - Maruthi Layout Cross Road 3  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 7 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5  
Date of test : 21/03/2022

| Identification Mark                             | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|-------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|                                                 |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| Culvert Side Wall - Maruthi Layout Cross Road 3 | M20               | 14/03/2022      | 21/03/2022      | 150.49 X<br>150.20 X<br>150.00 | 22604                | 8.725                | 416.7        | 18.4                 | 18.4                         |
| Culvert Side Wall - Maruthi Layout Cross Road 3 | M20               | 14/03/2022      | 21/03/2022      | 150.36 X<br>149.08 X<br>151.60 | 22415                | 8.458                | 407.2        | 18.2                 |                              |
| Culvert Side Wall - Maruthi Layout Cross Road 3 | M20               | 14/03/2022      | 21/03/2022      | 149.76 X<br>151.81 X<br>149.98 | 22735                | 8.164                | 422.0        | 18.6                 |                              |

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Date. ....  
R. KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-30-38 Date: 11/04/2022

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.

Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020

Customer's Reference : BBMP/EE/BTP/WO/35/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-03-22

Customer ID : Culvert Side Wall - Maruthi Layout Cross Road 3

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 11/04/2022

| Sl. No. | Identification Mark                             | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|-------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                 |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Culvert Side Wall - Maruthi Layout Cross Road 3 | M20               | 14/03/2022      | 11/04/2022      | 151.48 X<br>150.39 X<br>150.77 | 22781                | 8.649                | 534.3        | 23.5                 | 23.1                         |
| 2       | Culvert Side Wall - Maruthi Layout Cross Road 3 | M20               | 14/03/2022      | 11/04/2022      | 151.62 X<br>151.13 X<br>150.13 | 22915                | 9.052                | 513.4        | 22.4                 |                              |
| 3       | Culvert Side Wall - Maruthi Layout Cross Road 3 | M20               | 14/03/2022      | 11/04/2022      | 151.46 X<br>150.62 X<br>150.94 | 22813                | 8.240                | 535.5        | 23.5                 |                              |

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MARTHIK RECHAN

Authorized Signatory

Quality Manager

## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 21/03/2022

Lab ID : CP-2022-04-30-38  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 16-03-22  
Customer ID : Culvert Side Wall - Maruthi Layout Cross Road 3  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M20 / 7 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete C1.5  
Date of test : 21/03/2022

| Sl. No. | Identification Mark                             | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|-------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                 |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Culvert Side Wall - Maruthi Layout Cross Road 3 | M20               | 14/03/2022      | 21/03/2022      | 150.82 X<br>151.32 X<br>149.48 | 22821                | 8.226                | 421.4        | 18.5                 | 18.4                         |
| 2       | Culvert Side Wall - Maruthi Layout Cross Road 3 | M20               | 14/03/2022      | 21/03/2022      | 150.57 X<br>149.56 X<br>149.16 | 22520                | 8.474                | 420.1        | 18.7                 |                              |
| 3       | Culvert Side Wall - Maruthi Layout Cross Road 3 | M20               | 14/03/2022      | 21/03/2022      | 150.21 X<br>150.41 X<br>149.33 | 22592                | 8.191                | 408.3        | 18.1                 |                              |

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Quality Manager

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## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 11/04/2022

Lab ID : CP-2022-04-30-38

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.

Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020

Customer's Reference : BBMP/EE/BTP/WO/35/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-03-22

Customer ID : Culvert Side Wall - Maruthi Layout Cross Road 3

Sample Type /Size : 150X150X150 mm

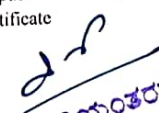
Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

| Sl. No. | Identification Mark                             | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|-------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                 |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | Culvert Side Wall - Maruthi Layout Cross Road 3 | M20               | 14/03/2022      | 11/04/2022      | 149.47 X<br>149.83 X<br>151.64 | 22396                | 8.994                | 530.5        | 23.7                 | 23.2                         |
| 2       | Culvert Side Wall - Maruthi Layout Cross Road 3 | M20               | 14/03/2022      | 11/04/2022      | 149.93 X<br>151.48 X<br>150.23 | 22712                | 8.438                | 505.2        | 22.2                 |                              |
| 3       | Culvert Side Wall - Maruthi Layout Cross Road 3 | M20               | 14/03/2022      | 11/04/2022      | 151.08 X<br>149.51 X<br>149.08 | 22588                | 8.515                | 534.4        | 23.7                 |                              |

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 R. K. THIRUCHAN  
 Authorized Signatory  
 Quality Manager



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R. K. THIRUCHAN  
Authorized Signatory  
Quality Manager

Page 1/1  
\*\*\*\*End of Report\*\*\*\*

## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-30-38 Date: 08/04/2022

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.

Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020

Customer's Reference : BBMP/EE/BTP/WO/35/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-04-22

Customer ID : CC Road - Maruthi Layout Sri Priya Nilaya Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/04/2022

| Sl. No. | Identification Mark                            | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 08/04/2022      | 149.75 X<br>150.59 X<br>150.83 | 22551                | 9.010                | 569.7        | 25.3                 | 25.2                         |
| 2       | CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 08/04/2022      | 151.78 X<br>149.12 X<br>151.93 | 22634                | 8.426                | 590.1        | 26.1                 |                              |
| 3       | CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 08/04/2022      | 150.69 X<br>149.47 X<br>151.20 | 22524                | 8.331                | 548.7        | 24.4                 |                              |

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ಬಹುಮುಖ್ಯತೆ ಮತ್ತು ಸುರಕ್ಷತೆ



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**HARTHIK RECHAN**  
Authorized Signatory  
Quality Manager

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## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-30-38 Date: 29/04/2022  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 04-04-22  
Customer ID : CC Road - Maruthi Layout Sri Priya Nilaya Road  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M30 / 28 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5  
Date of test : 29/04/2022

| Sl. No. | Identification Mark                            | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 29/04/2022      | 150.44 X<br>150.95 X<br>150.24 | 22709                | 8.715                | 758.3        | 33.4                 | 33.2                         |
| 2       | CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 29/04/2022      | 150.00 X<br>149.06 X<br>150.61 | 22359                | 8.372                | 728.8        | 32.6                 |                              |
| 3       | CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 29/04/2022      | 151.25 X<br>149.73 X<br>149.01 | 22648                | 8.794                | 758.8        | 33.5                 |                              |

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Quality Manager



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Quality Manager

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## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/04/2022

Lab ID : CP-2022-04-30-38  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 04-04-22  
Customer ID : CC Road - Maruthi Layout Sri Priya Nilaya Road  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M30 / 7 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5  
Date of test : 08/04/2022

| Sl. No. | Identification Mark                            | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 08/04/2022      | 151.25 X<br>149.29 X<br>151.12 | 22580                | 9.032                | 581.0        | 25.7                 | 25.4                         |
| 2       | CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 08/04/2022      | 151.68 X<br>149.94 X<br>150.51 | 22742                | 8.635                | 594.9        | 26.2                 |                              |
| 3       | CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 08/04/2022      | 149.27 X<br>150.81 X<br>151.44 | 22511                | 8.563                | 544.7        | 24.2                 |                              |

The results obtained are satisfactory as per standard requirements.

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*(Signature)*  
ಕರ್ತವ್ಯ ನಿರ್ವಹಣಾಧಿಕಾರಿ  
ಇ.ಎ.ಎ.ಪಿ. ಮೈಸೂರು ಮತ್ತು ಬೆಂಗಳೂರು



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*(Signature)*  
KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

Page 1/1  
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*(Signature)*  
ಕರ್ತವ್ಯ ನಿರ್ವಹಣಾಧಿಕಾರಿ  
ಇ.ಎ.ಎ.ಪಿ. ಮೈಸೂರು ಮತ್ತು ಬೆಂಗಳೂರು

## TEST REPORT OF CEMENT CONCRETE CUBES

Date: 29/04/2022

**CP-2022-04-30-38**  
**Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.**  
**Byatarayanapura Sub Division, BBMP, Bangalore.**  
**Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.**  
**Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020**  
**BBMP/EE/BTP/WO/35/2021-22**  
**Sample supplied by Agency**  
**Satisfactory**  
**04-04-22**  
**CC Road - Maruthi Layout Sri Priya Nilaya Road**  
**150X150X150 mm**  
**M30 / 28 Days Compressive Strength**  
**IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5**  
**29/04/2022**

| Identification Mark                            | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|                                                |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 29/04/2022      | 149.53 X<br>149.70 X<br>149.53 | 22385                | 8.231                | 756.4        | 33.8                 | 33.2                         |
| CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 29/04/2022      | 151.62 X<br>149.11 X<br>151.49 | 22609                | 9.025                | 724.2        | 32.0                 |                              |
| CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 29/04/2022      | 151.79 X<br>151.80 X<br>150.03 | 23043                | 8.252                | 775.8        | 33.7                 |                              |

results obtained are satisfactory as per standard requirements.

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 Authorized Signatory  
 Quality Manager

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
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## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-30-38 Date: 08/04/2022  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 04-04-22  
Customer ID : CC Road - Maruthi Layout Sri Priya Nilaya Road  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M30 / 7 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5  
Date of test : 08/04/2022

| Identification Mark                            | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|                                                |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 08/04/2022      | 150.34 X<br>150.72 X<br>150.15 | 22659                | 8.339                | 568.3        | 25.1                 | 25.2                         |
| CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 08/04/2022      | 150.45 X<br>150.62 X<br>151.20 | 22661                | 8.865                | 591.4        | 26.1                 |                              |
| CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 08/04/2022      | 150.07 X<br>149.42 X<br>149.89 | 22425                | 8.750                | 549.4        | 24.5                 |                              |

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Information furnished by Customer/Representative

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Handwritten signature and stamp of the Authorized Signatory.



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Sig. ....  
Date.....  
KARTHIK RECHAN  
Authorized Signatory  
Quality Manager

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ROADWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-30-38 Date: 29/04/2022  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 04-04-22  
Customer ID : CC Road - Maruthi Layout Sri Priya Nilaya Road  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M30 / 28 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5  
Date of test : 29/04/2022

| Sl. No. | Identification Mark                            | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|------------------------------------------------|-------------------|-----------------|-----------------|---------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                |                   |                 |                 | (mm)                      | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
|         | CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 29/04/2022      | 151.20 X                  | 22847                | 8.681                | 766.7        | 33.6                 | 33.0                         |
|         |                                                |                   |                 |                 | 151.10 X                  |                      |                      |              |                      |                              |
|         |                                                |                   |                 |                 | 149.21                    |                      |                      |              |                      |                              |
|         | CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 29/04/2022      | 150.75 X                  | 22866                | 8.931                | 741.8        | 32.4                 | 33.0                         |
|         |                                                |                   |                 |                 | 151.68 X                  |                      |                      |              |                      |                              |
|         |                                                |                   |                 |                 | 149.53                    |                      |                      |              |                      |                              |
|         | CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 29/04/2022      | 149.59 X                  | 22648                | 8.672                | 749.5        | 33.1                 | 33.0                         |
|         |                                                |                   |                 |                 | 151.40 X                  |                      |                      |              |                      |                              |
|         |                                                |                   |                 |                 | 149.77                    |                      |                      |              |                      |                              |

The results obtained are satisfactory as per standard requirements.

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 Sig..... KARTHIK RECHAN  
 Date.....  
 Authorized Signatory  
 Quality Manager

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\*\*\*\*End of Report\*\*\*\*

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL  
 WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

CP-2022-04-30-38

Date: 08/04/2022

08/04/2022

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## TEST REPORT OF CEMENT CONCRETE CUBES

**CP-2022-04-30-38** **Date: 29/04/2022**  
**er** : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
**s** : Byatarayanapura Sub Division, BBMP, Bangalore.  
**Name** : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
: Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
**er's Reference** : BBMP/EE/BTP/WO/35/2021-22  
**of Sample** : Sample supplied by Agency  
**Condition** : Satisfactory  
**Receipt** : 04-04-22  
**er ID** : CC Road - Maruthi Layout Sri Priya Nilaya Road  
**Type /Size** : 150X150X150 mm  
**grade/Age** : M30 / 28 Days Compressive Strength  
**ce to BIS codes** : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5  
**test** : 29/04/2022

| Identification Mark                            | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|                                                |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 29/04/2022      | 149.38 X<br>149.32 X<br>150.89 | 22305                | 9.065                | 736.2        | 33.0                 | 33.0                         |
| CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 29/04/2022      | 149.44 X<br>150.01 X<br>150.44 | 22417                | 8.101                | 719.9        | 32.1                 |                              |
| CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 29/04/2022      | 150.07 X<br>151.20 X<br>149.90 | 22690                | 8.148                | 770.5        | 34.0                 |                              |

Results obtained are satisfactory as per standard requirements.

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ದಿ. 29.04.2022 ರಂದು ಪರೀಕ್ಷಿಸಲಾಯಿತು  
 ದಿ. 29.04.2022 ರಂದು ಪರೀಕ್ಷಿಸಲಾಯಿತು

Page 1/1  
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\*ARTHIK RECHAN  
 Authorized Signatory  
 Quality Manager

## TEST REPORT OF CEMENT CONCRETE CUBES

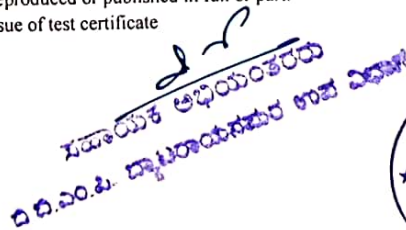
Date: 08/04/2022

**ID** : CP-2022-04-30-38  
**Customer** : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
**Address** : Byatarayanapura Sub Division, BBMP, Bangalore.  
**Project Name** : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
**Agency** : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
**Customer's Reference** : BBMP/EE/BTP/WO/35/2021-22  
**Source of Sample** : Sample supplied by Agency  
**Sample Condition** : Satisfactory  
**Date of Receipt** : 04-04-22  
**Customer ID** : CC Road - BBMP Office Back Side Road  
**Sample Type /Size** : 150X150X150 mm  
**Sample grade/Age** : M30 / 7 Days Compressive Strength  
**Reference to BIS codes** : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5  
**Date of test** : 08/04/2022

| Identification Mark                  | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|--------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|                                      |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| CC Road - BBMP Office Back Side Road | M30               | 01/04/2022      | 08/04/2022      | 151.86 X<br>150.45 X<br>150.64 | 22847                | 8.230                | 584.5        | 25.6                 | 25.6                         |
| CC Road - BBMP Office Back Side Road | M30               | 01/04/2022      | 08/04/2022      | 150.78 X<br>151.23 X<br>151.64 | 22803                | 8.962                | 608.3        | 26.7                 |                              |
| CC Road - BBMP Office Back Side Road | M30               | 01/04/2022      | 08/04/2022      | 150.79 X<br>149.55 X<br>151.46 | 22550                | 8.594                | 551.0        | 24.4                 |                              |

Results obtained are satisfactory as per standard requirements.

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 KARTHIK REDDY  
 Authorized Signatory  
 Quality Manager



AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017  
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Format No CP/TF/01

## TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-30-38 Date: 29/04/2022  
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.  
Address : Byatarayanapura Sub Division, BBMP, Bangalore.  
Project Name : Improvements to Balance Roads and Drains at Bhuvaneshwarinagara and Maruthi Layout of Dasarahalli Village Surrounding area in Ward no 06 Thanisandra.  
Agency : Dhananjaya M L, No:90/4, 2nd Floor, 2nd Main, Seshadripuram, Bangalore - 560020  
Customer's Reference : BBMP/EE/BTP/WO/35/2021-22  
Source of Sample : Sample supplied by Agency  
Sample Condition : Satisfactory  
Date of Receipt : 04-04-22  
Customer ID : CC Road - Maruthi Layout Sri Priya Nilaya Road  
Sample Type /Size : 150X150X150 mm  
Sample grade/Age : M30 / 28 Days Compressive Strength  
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5  
Date of test : 29/04/2022

| Sl. No. | Identification Mark                            | Grade of concrete | Date of Casting | Date of Testing | Dimension of the Specimen      | Cross sectional area | Weight of the sample | Failure Load | Compressive strength | Average Compressive Strength |
|---------|------------------------------------------------|-------------------|-----------------|-----------------|--------------------------------|----------------------|----------------------|--------------|----------------------|------------------------------|
|         |                                                |                   |                 |                 | (mm)                           | (Sq.mm)              | (kg)                 | (KN)         | (N/mm <sup>2</sup> ) | (N/mm <sup>2</sup> )         |
| 1       | CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 29/04/2022      | 149.12 X<br>150.96 X<br>149.14 | 22512                | 8.650                | 746.5        | 33.2                 | 33.0                         |
| 2       | CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 29/04/2022      | 150.60 X<br>149.48 X<br>151.55 | 22512                | 8.564                | 728.5        | 32.4                 |                              |
| 3       | CC Road - Maruthi Layout Sri Priya Nilaya Road | M30               | 01/04/2022      | 29/04/2022      | 151.67 X<br>149.39 X<br>151.66 | 22657                | 8.867                | 758.3        | 33.5                 |                              |

The results obtained are satisfactory as per standard requirements.

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R. V. R.  
KARTHIK RECHAN  
Authorized Signatory  
Quality Manager



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